PETERSON Janu.
Bart ShiphardREOUSEPA/LISBEPA: rgansemer@parametric com Ere Bencher/HOUSEPA/USBEPA, UNDERSON Jen M: Bobert Nesty PCB, TBT and Lead TRV Comments 08/07/2008 09:57 PM

Here are DEQ's comments on the PCB, TBT and Lead DRAFT TRVs.

PCBs Faitr. The doxin like effects for PCBs were not included in this TRV development. While the separation of TRV development into doxin like effects and the effects or total PCBs is supported, there is some concern that the development of a dioxin-like TRV is currently not underway. We would recommend developing a dioxin like TRV for fish using appropriate doxin like PCB and dioxin livan data. DEC has a dioxin-like 18h TRV of 6.4 pgg, which is significantly lower than what the LWG used as a provisional TRV during Round 2 screening of 90 pgg.

DOS SSD based taxicity reference value was calculated at 172 ug/kg (as the mean), and a lower confidence limit of 271 ug/kg and a ugeer confidence min of 570 ug/kg for fish and invertebrates combined. The calculated TRV takin in the upper confidence value range of the DEG SSD. The PCB dataset is populated monsty by mortality and studies. Due to the lack of studies in the entire confidence value range of the DEG SSD. The PCB dataset is populated monsty by mortality and studies. Due to the lack of studies in the entire confidence value range of the DEG SSD. The PCB dataset is populated monsty by mortality and studies. The increase that is not in the upper confidence value range of the DEG SSD datasets. The increase that is not in the upper confidence value range of the DEG SSD datasets. The increase that is not in the universal studies and an inventebrate data and inventebrate data. The up/kg pairs not invidual studies. For protection of 95% of the species, DEG would recommend the mean value calculated as a part of our guidance development at 172 ug/kg. This is more in ine with the AVIVC value used in corpurction with the BCF, which DEG calculated at 77 ug/kg. Either of these values would be consistent with DEG's Guidance for the Avesternar of December 2012 and 2014 and 2

77.9

Adult fish Salvelinus fontinalis freshwater embryo 21 days Whole body <0.5 Freeman HC, Idler DR Can J Biochem 53:666-670 Brook trout

Why was this study omitted (sorry I deleted your other PCB file so this my have already been explained)?

I did not have time to review the PCB invertebrate TRV in detail, but why wasn't the Neff paper included (see DEQ's database)?

Vernberg FJ, Calabrese A, Thurberg FP,
Vernberg WB, editors. Physiological
responses of marine biota to politulants,
New York: Academic Press. P21-35.

IEL: I did not have time to review this TRV. However, TBT is identified as a COPC for investebrates only. It is important to note that there was not TBT data collected as a part of the Round 1 effort. It will be important to screen the Round 3 fish data with an appropriate TRV. My biggest question is how we are dealing with the other buyl it may have selected (buyl in any disuplinity). The Round 2 Report did not screen other buyl first, a significant concentrations in investebrates and fair, (e.g., craylish at 333 uplys doublinit. Clap 37 uplys buyl (m). Are we applying the TBT TRV to the others? Are we eging to develoe generate TRVs if the data a seniable? Or a separate topic 1 or up accordance to the highest investorial and in Controllar of Screen the Control of Screen to the Control of Screen the Control of Screen to the Control of Screen the Control of Screen to the Control of Screen the Control of Screen to the Control of Screen the Control of Scree

Lead Fish. 1 did not have much time to review this SSD. However, DEQ's SSD for lead was calculated as 13.4 upkg as the mean value protecting 95% of the species (0.0134 mg/kg). The value developed here is significantly higher at 4000 ugkg. The papers selected by DEQ included 4 invertebrate papers and 1 fish paper (Hotocmbe et. al.). Based on the limited fish fissue data available, there may be more centainly in deriving a combined invertebrate / fish SSD TRV. Our analysis and SSD derivation would support this approach.